

CLAIMS

1. A filter for reactive reflection of acoustical energy within a fluid conducted through a piping system, comprising: an outer casing enclosing a flow chamber between opposite axial ends thereof through which the fluid is conducted; flexible means positioned within the outer casing for exposure to the fluid within the flow chamber throughout between said opposite axial ends of the casing; and acoustic responsive deformation means mounted radially between the flexible means and the flow chamber through which the flexible means is deformed in response to said exposure to the fluid in the flow chamber in accordance with the acoustical energy in the fluid.
2. The filter as defined in claim 1, wherein said acoustic responsive deformation means comprises: an inner cylindrical drum having differently sized slanted holes through which the flexible means is exposed to the fluid within the flow chamber.
3. The filter as defined in claim 2, including gas cavity means enclosed within the outer casing through which the flexible means is exposed to pressurized gas in opposition to said exposure to the fluid in the flow chamber.
4. The filter as defined in claim 3, wherein said flexible means comprises: a cylindrical rubber layer; and a cylindrical support having slanted holes therein on which the rubber layer is positioned under said exposure to the fluid within the flow chamber through the slanted holes.

5. The filter as defined in claim 1, wherein said flexible means comprises: a cylindrical rubber layer; and a cylindrical support having slanted holes therein on which the rubber layer is positioned under said exposure to the fluid within the flow chamber through the slanted holes.